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(54) METHOD FOR PRODUCING POLYAMIDE RESIN

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method for producing a polyamide resin whose gelation is suppressed.

SOLUTION: This method for producing the polyamide resin in which ≥ 70 mol. % of a diamine component is m-xylylenediamine and further in which the total contents of tertiary nitrogen comprising nitrogen based on imino compounds and nitrogen based on tertiary amides is ≤ 0.5 mol. % with respect to the total nitrogen content based on secondary amides, comprising a continuous process consisting mainly of a raw material-preparing process, an salt-formation process, an pre-polymerization process and a post-polymerization process, controls supply accuracy C/A (molar ratio; dicarboxylic acid/diamine) to 1.025 to 0.975, when the dicarboxylic acid and the diamine are supplied from the raw material-preparing process to the salt-formation process, controlling a salt concentration, namely the aqueous concentration of the aminocarboxylic acid salt produced from the amine and the dicarboxylic acid in the amidation process, to ≥ 80 wt.%, and further controlling a retention time, namely a time needed from the start of the supply of the raw materials to the salt-formation process to the discharge of the polyamide resin, to ≤ 210 min.

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